

## CLEAN VERSION

-14-

genomic DNA was similarly performed, using 200 ng of genomic DNA instead of first strand cDNA.

**VI. Comparison of expression levels by semi-quantitative RT-PCR**

To compare the expression of individual genes, RT-PCR was performed using  
5 primer pairs designed based on the sequence of the cDNA clones that was included on  
the GeneFilter. The PCR was done from 25 to 40 cycles with increments of 5-cycles,  
except for  $\beta_2$ -microglobulin, which was done at 18, 22, 25, and 30 cycles. The PCR  
reaction products were analyzed on a 3% agarose gel stained with ethidium bromide,  
and the amount of DNA was quantitated as band intensities using GelDoc software  
10 from BioRAD (Hercules, CA). The level of expression of each gene was normalized  
against the level of  $\beta_2$ -microglobulin expression between these two species. The  
relative expression between human and baboon cDNA was estimated by measuring  
the ratio of intensity of DNA product, comparing only those measurements which fell  
within the linear range of PCR amplification cycles; multiple determinations, when  
15 performed, were averaged. The sequences of Forward (F) and Reverse (R) primers  
are: Transmembrane 4 superfamily member 4 (TM4SF4), F-  
AAGCGATTTGCGATGTTACCTC (SEQ ID NO: 1), R-  
GAGGCTCTCGGCACTTGTTCC (SEQ ID NO: 2); Protein tyrosine kinase 9  
(PTK9), F-GATTCCTTTGTTTTACCCCTGTTGGAG (SEQ ID NO: 3), R-  
20 TTGCTGC ATACAACATTTTTTGAC (SEQ ID NO: 4); Cytochrome P450,  
subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile)  
(CYP1B1), F-GTAATGGTGTCCCAGTATAA GTAATGAG-3'(SEQ ID NO: 5), R-  
TCATGAATGCTTTTAGTGTGTGC-3'(SEQ ID NO: 6); Colony stimulating factor  
3 receptor (granulocyte) (CSF3R), F-CTGAAGTTATAGGAAACAAGC  
25 ACAAAGGC (SEQ ID NO: 7), R- GCCC ATGACTAAAACTACCCCAGC  
(SEQ ID NO: 8); Beta-2-microglobulin (B2M), F- CCTGAATTGCTA  
TGTGTCTGGG (SEQ ID NO: 9), R- TGATGCTGCTTACATGTCTCGA (SEQ ID  
NO: 10).  
R82595, F : GCTCGTAGCAACATTTTCGTAATAGCC (SEQ ID NO: 11), R :  
30 GGACCCATCGTGGTT ACCGTG (SEQ ID NO: 12); AA676327, F-  
ATATTTTCGGTAACTTTTGACCCTAAG (SEQ ID NO: 13), R: CAGGGGCAA  
TTTTGAGGTATG (SEQ ID NO: 14); R85439, F:

## CLEAN VERSION

-15-

GGCAGGGCTCTAAATGGAAGTAGTTG (SEQ ID NO: 15), R: CTCAG  
AAGTGTTTTGTAGCAAGGCTGC (SEQ ID NO: 16), AA487912, F:  
AAACAGTGACTTATCCCGCTAC CC (SEQ ID NO: 17), R:  
GGGTGGGTTTACTCTTAGAATCGC (SEQ ID NO: 18); N25920, F:  
5 CAGATGGAGGGTTTATG AGTGAGGCTGG (SEQ ID NO: 19), R:  
GCTTGTTCTTTGGGGATTGTGGTGC (SEQ ID NO: 20); R05886, F: TAGGCG  
TGAGAAGCATATAGAGGC (SEQ ID NO: 21), R: AGTGAATAAGCAAGAAATCAGGGTG  
(SEQ ID NO: 22); N74363, F: ACAAAGGGCTGTTTACTGAGAGACCTGAGC  
(SEQ ID NO: 23), R: GGCATAACTCACCCATT TGTTTACCTGC (SEQ ID  
10 NO: 24); N55359, F: GGCAGAATCTACTGGGCATCTTGTAATC (SEQ ID NO:  
25),  
R: AGTTTTGGTGGTCCAGGGAAGGTAC (SEQ ID NO: 26).